## ABSTRACT

A process for coating hollow bodies, in which a powder mixture including a metal donor powder, an inert filler powder and an activator powder including a metal halide is provided, the powder mixture is brought into contact with an inner surface, which is to be coated, of the hollow body and is heated, in which process, in order to increase the internal layer thicknesses, the inert filler powder is provided with a mean particle size which is approximately the same as the mean particle size of the metal donor powder.